

From: Fuentes, Rene
To: ["Mullen, Tom"](#)
Bcc: [Winiecki, Eric](#); [Fleming, Sheila](#)
Subject: RE: DOCKET NO. SDWA-10-2013-0080 / Groundwater Monitoring Well Installation Activities - Tuesday, September 4, 2013 Update
Date: Thursday, September 05, 2013 4:08:00 PM

*Tom,
Thanks for reply.
Rene*

From: Mullen, Tom [mailto:Tom.Mullen@arcadis-us.com]
Sent: Thursday, September 05, 2013 3:46 PM
To: Fuentes, Rene
Cc: Freeman, Kevin; Sebesta, Lisa
Subject: RE: DOCKET NO. SDWA-10-2013-0080 / Groundwater Monitoring Well Installation Activities - Tuesday, September 4, 2013 Update

Rene,

The repeated surging and bailing created an excessive amount of turbidity. It did however, remove much of the fine sand as was intended. I suspect that once we begin the purging process during sampling that turbidities will decrease dramatically.

Tom

From: Fuentes, Rene [<mailto:fuentes.rene@epa.gov>]
Sent: Thursday, September 05, 2013 10:42 AM
To: Mullen, Tom
Subject: RE: DOCKET NO. SDWA-10-2013-0080 / Groundwater Monitoring Well Installation Activities - Tuesday, September 4, 2013 Update

*Thanks Tom.
I have been wondering why your turbidity values have been and remained so high (above 800 NTU) after development. Our measurements in EPA wells did come down significantly while developing in most wells.
Rene*

From: Mullen, Tom [<mailto:Tom.Mullen@arcadis-us.com>]
Sent: Thursday, September 05, 2013 9:43 AM
To: Fuentes, Rene
Cc: Winiecki, Eric; Baron, Adam; Freeman, Kevin; Sebesta, Lisa
Subject: DOCKET NO. SDWA-10-2013-0080 / Groundwater Monitoring Well Installation Activities - Tuesday, September 4, 2013 Update

Rene,

On Wednesday, September 4, Cascade conducted development activities on wells YVD-05, (total depth [TD] = 182 ft), YVD-06 (TD = 169 ft) and YVD-02 (TD = 35 ft). The wells were surged and bailed for approximately 2-1/2 hours. Water level measurements prior to developing each well indicated the following water columns: YVD-05 – 14.1 ft, YVD-06 – 57.7 ft, and YVD-02 – 13.9 ft.

Approximately 7.5, 7.5, and 5 gallons of water were removed from wells YVD-05, YVD-06, and YVD-02, respectively. Water quality parameters were recorded during development. Water quality parameters changed only some during development of the wells. An abundant amount of very fine sand was removed from the wells and turbidity exceeded the limits of the water quality meter (e.g., 800 NTU).

Groundwater sampling, including a synoptic water level measurement round is scheduled for the week starting September 16.

Please let me know if you have any questions.

Thank you

Tom

Thomas F. Mullen, PG | Certified Project Manager / Senior Hydrogeologist | tom.mullen@arcadis-us.com

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